

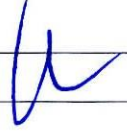
Work Order ID 150655

Monday, August 29, 2016 2:55:26 PM

150655

Page 1

Item ID: D4182-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fitting, Quick Disconnect
Start Date: 8/23/2016 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 8/29/2016 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan:  Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4182	B								
100	PURCHASING	0.00							DAS 13 9-89
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 33481								
	Purchase Part Number: P/N 6718K52								
	Supplier: MCMASTER CARR								
	Material release note is required.								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.01							
Packaging	Ensure material release note is attached								

4x **SP/6-9-6.**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:12.5%;">Skid-tube ☐</td> <td style="width:12.5%;">Cross tube ☐</td> <td style="width:12.5%;">Water Jet ☐</td> <td style="width:12.5%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																		
Description Work Order Deviation				Disposition																					
Root Cause		FAULT CATEGORY																							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :																						
Misidentified ☐	☐	Past Due ☐																							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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150655

D4182-1

Required Date: 8/29/2016

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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4

Fitting, Quick Disconnect

DQA: _____ Date: _____



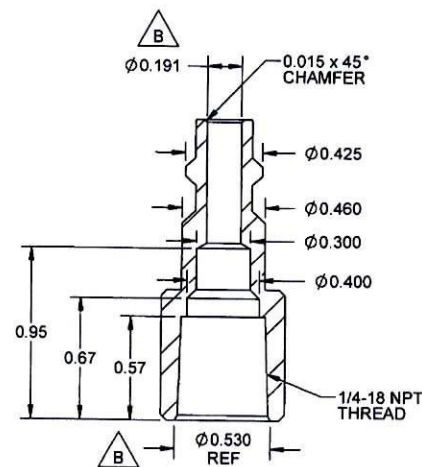
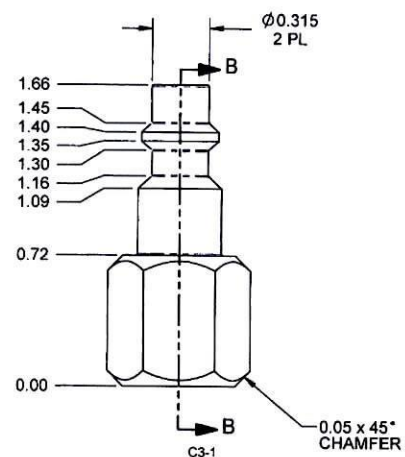
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

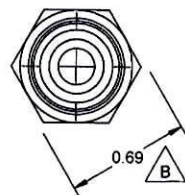
Work Order update only ☐

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SPECIFICATION CONTROL DRAWING



SECTION B-B C6-1



D4182-1 FITTING, QUICK DISCONNECT

NOTES:

- 1) MATERIAL: STAINLESS STEEL
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.07 lbs
- 8) POSSIBLE SUPPLIER: McMASTER CARR P/N 6718K52

RELEASED
2011-06-30

B	Ø0.191 WAS Ø0.201 (ZN D4-1); 0.57 WAS 0.45 (ZN C4-1); 0.89 WAS 0.62 (ZN B5-1)		RF	11.03.07
A	NEW ISSUE		RF	10.09.16
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE USA, INC. PORT HADLOCK, WA		
DRAWN	RF			
CHECKED	RF	DRAWING NO.	REV. B	
MFG. APPR.	RF	DSC-D4182	SHEET 1 OF 1	
APPROVED	RF	TITLE	SCALE	
DE APPR.	RF	FITTING	NTS	
DATE	11.03.07 COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.			



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33481**

Purchase Order Date 8/30/2016

PO Print Date 8/30/2016

Page Number 3 of 6

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

6 6718K52

Fitting, Quick Disconnect

9/2/2016

Yes

9/2/2016

4.00

Each

\$5.81

\$23.24

AS PER DWG D4182 REV. B
B150655

Spl 16-9-6

Line Total:

\$23.24

7 92311A639

SS SET SCREW

9/2/2016

Yes

9/2/2016

50.00

Each

\$0.63

\$31.45

AS PER DWG D2747 REV. B
B150669

Line Total:

\$31.45

8 95606A170

Washer

9/2/2016

Yes

9/2/2016

100.00

Each

\$0.09

\$8.60

AS PER DWG D3631 REV. A
B150675

Line Total:

\$8.60

Note:

8/30/2016



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO33481

Order Placed By
Chantal Lavoie

McMaster-Carr Number
7924498-01

Page 1 of 1

08/30/2016

Line	Product	Ordered	Shipped
2	63215K34 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 3/8" ID, 13/16" OD, 13/32" Ball Thick	10 Each	10
3	97395A451 Corrosion Resistant Dowel Pin, Type 316 Stainless Steel, 1/8" Diameter, 3/4" Length, Packs of 10	5 Packs	5
4	6605K56 Hook and Loop Cable Ties, 24" Overall LG. , Meets UL 94V2, Packs of 5	2 Packs	2
5	91525A120 316 Stainless Steel Washer, Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	2 Packs	2
6	6718K52 303 Stainless Steel Indust-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End	4 Each	4
7	92311A639 18-8 Stainless Steel Cup Point Set Screw, 3/8"-24 Thread, 1" Long, Packs of 10	5 Packs	5
8	95606A170 Nylon Plastic Washer, for 7/16" Screw Size, 0.5" ID, 0.688" OD, Off-White, Packs of 100	1 Pack	1
9	7467A26 3M Adhesive Cartridge, DP460 High Strength Epoxy, 1.25 Ounces	12 Each	12
10	9438K1 Food-Grade Antiseize Lubricant, 1 lbs. Brush-Top Can	1 Each	1
11	6718K88 303 Stainless Steel Indust-Shape Air Hose Coupling, Size 3/8, Sleeve-Lock Socket, 3/8" ID	2 Each	2
12	91251A440 Black-Oxide Alloy Steel Socket Head Cap Screw, 1/4"-28 Thread, 3/4" Length, Packs of 50	1 Pack	1
13	47505A746 Nylon Mesh Sanding Belt for Cleaning, and Polishing, 6" Wide, 48" Long, Medium Grade	3 Each	3
14	4714A732 High Performance Multipurpose Sanding Belt, 80 Grit, 6" Wide, 48" Long	6 Each	6
15	4714A732 High Performance Multipurpose Sanding Belt, 120 Grit, 6" Wide, 48" Long	6 Each	6

4
SP16-9-6

Expected to ship

1	3543T77 High-Strength 301 Stainless Steel Sheet, with Certificate, Full Hard, 0.029" Thick, 12" X 36"	2 Each	2 to ship by 09/13
---	--	-----------	--------------------

Notes about your shipment

The U.S. Department of Transportation regulates the shipping of line 9. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500 Fax: 330-995-9600
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Invoice: 77017772
Purchase Order: PO33481
Release:
McMaster-Carr Number: 7924498-01

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Line	Description	Qty & Unit	Unit Price	Extension
6	6718K52 303 Stainless Steel Indust-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End Country of Origin: United States Schedule B #: 848190 ECCN #: 2B999 NLR	4 EA	\$5.81	\$23.24
7	92311A639 18-8 Stainless Steel Cup Point Set Screw, 3/8"-24 Thread, 1" Long, Packs of 10 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	5 PK	\$6.29	\$31.45
8	95606A170 Nylon Plastic Washer, for 7/16" Screw Size, 0.5" ID, 0.688" OD, Off-White, Packs of 100 Country of Origin: United States Schedule B #: 392690 ECCN #: EAR99 NLR	1 PK	\$8.60	\$8.60
9	7467A26 3M Adhesive Cartridge, DP460 High Strength Epoxy, 1.25 Ounces Country of Origin: United States Schedule B #: 350610 ECCN #: EAR99 NLR	12 EA	\$24.96	\$299.52
10	9438K1 Food-Grade Antiseize Lubricant, 1 lbs. Brush-Top Can Country of Origin: United States Schedule B #: 271099 ECCN #: EAR99 NLR	1 EA	\$23.57	\$23.57
11	6718K88 303 Stainless Steel Indust-Shape Air Hose Coupling, Size 3/8, Sleeve-Lock Socket, 3/8" ID Country of Origin: United States Schedule B #: 848120 ECCN #: 2B999 NLR	2 EA	\$45.19	\$90.38
12	91251A440 Black-Oxide Alloy Steel Socket Head Cap Screw, 1/4"-28 Thread, 3/4" Length, Packs of 50 Country of Origin: United States Schedule B #: 731815 ECCN #: EAR99 NLR	1 PK	\$7.69	\$7.69
13	47505A746 Nylon Mesh Sanding Belt for Cleaning, and Polishing, 6" Wide, 48" Long, Medium Grade Country of Origin: United Kingdom Schedule B #: 680530 ECCN #: EAR99 NLR	3 EA	\$60.78	\$182.34
14	4714A732 High Performance Multipurpose Sanding Belt, 80 Grit, 6" Wide, 48" Long Country of Origin: Germany Schedule B #: 680510 ECCN #: EAR99 NLR	6 EA	\$10.96	\$65.76
15	4714A732 High Performance Multipurpose Sanding Belt, 120 Grit, 6" Wide, 48" Long Country of Origin: Germany Schedule B #: 680510 ECCN #: EAR99 NLR	6 EA	\$9.44	\$56.64
	NOTE The U.S. Department of Transportation regulates the shipping of line 9. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.			

SP/69-6.